

## Preparation of oligomers of alkenes having from 4 to 8 carbon atoms

## Abstract

- 5 Process for preparing oligomers of alkenes having from 4 to 8 carbon atoms from a feed stream comprising such alkenes or hydrocarbon streams in which such alkenes are present over a nickel-containing, heterogeneous catalyst in  $n$  successive adiabatically operated reactors, where  $n$  is 2 or an integer greater than 2, at from 30 to 280°C and pressures of from 1 to 300 bar, where the feed stream has a temperature  $T_{in}$  when
- 10 it enters the first reaction zone, experiences a temperature increase in each reaction zone and, if this temperature increase is more than  $T_{in} + 20^\circ\text{C}$ , is brought to a temperature in the range  $T_{in} \pm 20^\circ\text{C}$  before it enters a subsequent reaction zone, wherein the feed stream is divided and the feed substreams obtained in this way are fed to the
- 15 2 reactors, or if more than 2 reactors are used to at least 2 of the reactors, with addition of fresh feed in such a way that the temperature in one of the reactors is at most 20°C higher than that in each of the other reactors used.